Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (Currently Amended) A pharmaceutical administrative system comprising:

a pharmacy network including a pharmacy server and at least one pharmacy client system, the at least one pharmacy client system configured to accept and process orders for medications; and

a service center network including a service center server and a service center client system, the service center network coupled to the pharmacy network and configured with a global database including a plurality of formulary records, the formulary records comprising chemical composition and properties of each of a plurality of medications,

wherein the service center server is configured to supply~~ies~~ the pharmacy server at least one of the plurality of formulary records comprising chemical composition and properties for at least one of the orders for medication upon request by the at least one pharmacy client system when the at least one of the orders for medication is processed.

Claim 2. (Original) The pharmaceutical administrative system of claim 1 wherein the global database further includes a plurality of order records, each order record including order information for an order accepted and processed by the at least one pharmacy client system.

Claim 3. (Original) The pharmaceutical administrative system of claim 1 wherein the global database further includes a plurality of customer records, each customer record including contact and formulary information for at least one customer.

Claim 4. (Original) The pharmaceutical administrative system of claim 2 wherein the global database further includes a plurality of patient records, each patient record including contact information and medication history for at least one patient.

Claim 5. (Previously Presented) The pharmaceutical administrative system of claim 3 wherein the pharmacy client system is further configured to generate a medication specific label containing medication identification information.

Claim 6. (Original) The pharmaceutical administrative system of claim 5 wherein the pharmacy client system is configured to provide updates to the patient, customer, and formulary records in the global database.

Claim 7. (Original) The pharmaceutical administrative system of claim 6 wherein updates to the formulary records include modification to the ingredients of the medication.

Claim 8. (Original) The pharmaceutical administrative system of claim 7 wherein updates to the modification to the ingredients of the medication include changes to amounts of caloric content in the medication.

Claim 9. (Original) The pharmaceutical administrative system of claim 7 wherein updates to the modification to the ingredients of the medication include changes to amounts and preferences of electrolytes in the medication.

Claim 10. (Original) The pharmaceutical administrative system of claim 7 wherein the pharmacy client system is configured to verify the updates to the formulary records in the global database.

Claim 11. (Original) The pharmaceutical administrative system of claim 7 wherein the medication specific label is for an intravenous solution and the medication identification information includes a refractive index associated with the intravenous solution.

Claim 12. (Original) The pharmaceutical administrative system of claim 7 wherein the medication specific label is for an intravenous solution and the medication identification information includes a level of potassium associated with the intravenous solution.

Claim 13. (Original) The pharmaceutical administrative system of claim 7 wherein the pharmacy client system is configured to generate a calcium phosphate solubility curve for an order accepted and processed by the at least one pharmacy client.

Claim 14. (Previously presented) The pharmaceutical administrative system of claim 6 further comprising:

a backup network configured to provide access to a backup database by the pharmacy network when the service center network is not available for a predetermined amount of time, the backup network comprising:

a backup server configured to:

receive replicated records of orders for medications, the replicated records of orders for medications being replicated by the service center server; and

store in the backup database the replicated records of orders for medications.

Claim 15. (Original) The pharmaceutical administrative system of claim 6 wherein the pharmacy server is configured with a local database containing a subset of formulary records of the plurality of formulary records in the global database that specifically pertains to the pharmacy network.

Claim 16. (Currently Amended) A pharmaceutical administrative system comprising:

a pharmacy network including a pharmacy server and at least one pharmacy client system, the at least one pharmacy client system configured to accept and process orders for medications; and

a service center network including a service center server and a service center client system, the service center network coupled to the pharmacy network and configured with a global database including a plurality of formulary records, the formulary records comprising chemical composition and properties of each of a plurality of medications,

wherein the service center server is configured to supplyies the pharmacy server at least one of the plurality of formulary records comprising chemical composition and properties for at least one of the orders for medication upon request by the at least one pharmacy client system when the at least one of the orders for medication is processed; and

wherein the at least one pharmacy client system comprises:

an order maintenance unit configured to create an order for medication for at least one customer and at least one patient;

a formulary unit coupled to the order maintenance unit and presenting information about the medication to the order maintenance unit;

a customer unit coupled to the order maintenance unit and presenting information relating to contact and purchasing information for the at least one customer ordering the medication; and

a patient unit coupled to the order maintenance unit and the customer unit and presenting information relating to contact and medical information for the at least one patient;

wherein the order maintenance unit is configured to modify the ingredients of the medication and to validate the modifications to the ingredients of the medication.

Claim 17. (Previously Amended) The pharmaceutical administrative system of claim 16 wherein the medication is an intravenous solution.

Claim 18. (Previously Amended) The pharmaceutical administrative system of claim 17 wherein the order maintenance unit is configured to validate the modifications to the ingredients by generating a calcium phosphate solubility curve for the medication.

Claim 19. (Previously Amended) The pharmaceutical administrative system of claim 18 wherein the order maintenance unit is further configured to determine calcium and phosphate content in the medication and to compare the calcium and phosphate content to the calcium phosphate solubility curve for the medication.

Claim 20. (Previously Amended) The pharmaceutical administrative system of claim 19 wherein the order maintenance unit is further configured to provide a warning when the calcium and phosphate content does not match the calcium phosphate solubility curve for the medication.

Claim 21. (Previously Amended) The pharmaceutical administrative system of claim 20 wherein the order maintenance unit is configured to generate medication specific labels for the medication.

Claim 22. (Previously Amended) The pharmaceutical administrative system of claim 21 wherein the medication specific labels for the medication includes information about a refractive index of the intravenous solution.

Claim 23. (Previously Amended) The pharmaceutical administrative system of claim 22 wherein the medication specific labels for the medication includes information about a level of potassium in the intravenous solution calculated using flame photometry.

Claim 24. (Previously Amended) The pharmaceutical administrative system of claim 23 wherein the modifications to the ingredients of the medication includes modifications to caloric content of the medication.

Claim 25. (Previously Amended) The pharmaceutical administrative system of claim 24 wherein the order maintenance unit is configured to validate the modifications to the caloric content in the medication by comparing the modifications to predetermined amounts of caloric content in predefined medications.

Claim 26. (Previously Amended) The pharmaceutical administrative system of claim 23 wherein the modifications to the ingredients of the medication includes modifications to electrolytes in the medication.

Claim 27. (Previously Amended) The pharmaceutical administrative system of claim 26 wherein the order maintenance unit is configured to validate the modifications to the electrolytes in the medication by comparing the modifications to predetermined amounts of electrolytes in predefined medications.

Claims 28-40 (Cancelled)